

Type C Continuous-Flow Class - Approval No. TC-19C-154



Bullard CC20 Respiratory Systems provide a continuous flow of air from a remote air source via airline. The flow of air is delivered to the respirator wearer through a patented air delivery system. CC20 Series respirators offer protection from airborne contaminants that are not immediately dangerous to life or health (IDLH), or that do not exceed concentrations allowed by applicable OSHA, MSHA, EPA, NIOSH or ACGIH regulations and recommendations, or any other applicable regulations for continuous flow airline respirators.

CC20 Series airline respirators are approved by NIOSH (TC-19C-154 Type C). Bullard has determined that these respirators may be used to provide respiratory protection in general purpose applications, including pharmaceutical manufacturing, chemical and pesticide handling, tank cleaning, spray painting and other industrial or agricultural applications in which hazardous compounds are present.

Bullard hoods are available in 12 different styles and sizes, including a loose-fitting facepiece style with a partial facial seal. Bullard hoods will accommodate limited facial hair without compromising the level of protection. Facial hair must not interfere with or protrude under the facial seal on the 20LFL and 20LFM hoods.

The hood covers are held in place by snap-in replaceable suspensions or, in the case of the loose-fitting facepiece hoods, a sewn-in elastic suspension. Breathing air is supplied from a breathing tube connected to the back of the hood.

CC20 Series respirators are compatible with breathing air sources such as breathing air compressors or Bullard Free-Air® Pumps. Bullard offers the appropriate approved breathing tube, flow control device and air supply hose to connect the CC20 Series respirator to these breathing air sources.

CC20 Series respirators are approved by NIOSH for use with optional Bullard climate control devices. Contact Bullard or its local authorized distributor for more information about these and other accessories for CC20 Series respirators.

All Bullard parts must be present and properly assembled to constitute a NIOSH approved respirator.

For technical assistance, contact Bullard Technical Support at 877-BULLARD (285-5273) or 859-234-6616.



> NOTE

Bullard CC20 hoods are also NIOSH approved for certain PAPR configurations. Please refer to your Bullard PAPR manual or call Customer Service at 877-BULLARD (285-5273).

WARNING

Read all instructions and warnings before using these respirators. Failure to follow these instructions could result in death or serious injury. Save this manual for future reference.

The CC20 Series Airline Respirators are not approved for abrasive blasting.

The CC20 respirator's air source must supply clean, breathable air, Grade D or better, at all times. The CC20 respirator does not purify air or filter out contaminants. Connecting the CC20 respirator to a line supplying nitrogen or other harmful gases could cause death or serious injury



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CC20 Approval Label



Type C Continuous Flow Supplied-Air Respirator
This respirator is approved only in the following configurations:

																																								RE	SPI	RAT	OR							_	-
TC-	PROTECTION ¹	MODEL			A	LTEI HC	RNA					SU	SPE	RNA NSI D H	ON/			HING BE															А	ILTEI	RNA	ΓE FI	LOW	' CO	NTR	OL	DEV	ICE									_
		CC20 SERIES HOODS	20TJN	20TICN	20SICN 20TICSN	20TICH	20SICH	20TPN	20TPCN	20LFM	SOUTE	20RT	3000	3000R	51XXR	51XXP	20BT	20LFBT	F30	F30B	F30S	F31	F32 F33	F34	F35	F35B	F35S	F37	F40 F40B	F40S	F41	F42	F44	F47	AC100030	ACT00030B	AC100031	AC100032	1000	AC100034		AC10003/	HC240030		:1 ()		\sim	22400	⊻.I c	HC240037	DC5040
19C-154	SA/CF	CC20	Х	Х	ΧХ	X	Х	Х	Х	X >	()	(X	Х	Х	Х	Х	Х	Х	Х	Х	X 2	x >	(X	X	Х	Х	Х	хχ	X	Х	Х	х х	Х	Х	Χ :	κх	X	Х	Х	X :	ΧХ	()	X	Х	Х	Х	Х	X Z	X)	х :	X

¹Protection

CF - Continuous Flow SA - Supplied-Air

²Cautions and Limitations

- A Not for use in atmospheres containing less than 19.5% oxygen.
- B Not for use in atmospheres immediately dangerous to life or health.
- C Do not exceed maximum use concentrations established by regulatory standards.
- D Airline respirators can be used only when respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
- E. Use only the pressure ranges and hose lengths specified in the instruction manual.
- J Failure to properly use and maintain this product could result in death or serious injury.

Bullard Cynthiana, KY 41031 USA 1-800-827-0423



COMPONENTS		
AIR HOSE	ACCESSORIES	CAUTIONS AND LIMITATIONS ²
DCSG40B DCSG40B DCSG40B DCSG41 DCSG42 DCSG42 DCSG43 DCSG43 DCSG44 DCSG43 DCSG44 DCSG44 DCSG44 DCSG44 DCSG44 DCSG44 DCSG46 S4512 S4512 S4511 S4512 S4511 S4510 S4510 S4511 S4510 S4511 S4510 S4511 S4510 S4511 S4510 S4511 S451	V52332 V55033FF 201.CL 36501 DC70ML DC70 XIXXL HS HS ES42 ES42 ES42 ES42	
	x x x x x x x x x x	ABCDEJMNOS

- M All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- N Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O Refer to users instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- S Special or critical User's Instructions and/or specific use limitations apply. Refer to User's Instructions before donning.



Component Concept CC20 Airline Respirators

Bullard CC20 Series airline respirators consist of five components (Figure 1); all must be present and properly assembled to constitute a complete NIOSH approved respirator.

① Respirator Hood: Available in a variety of styles (including loosefitting facepiece) and in two Tychem®-based materials.

Tychem QC basic hood and headband suspension

20TP Tychem QC basic hood and headband, with solvent-resistant polvester lens

20TIC Tychem QC hood with inner bib and headband

Tychem QC hood with inner bib and headband, with solvent-20TPC resistant polyester lens

20TICH* Tychem QC hood with inner bib for use with head protection

20TICS Tychem QC hood with taped and sealed seams, with inner bib, long outer bib, and headband suspension

20STC Tychem SL hood with taped and sealed seams, with inner bib, long outer bib, and headband suspension

20SICH* Tychem SL hood with taped and sealed seams, with inner bib and long outer bib for use with head protection

20LFM Tychem QC loose-fitting facepiece hood, facial seal, sewn-in suspension, lightweight breathig tube, small/medium (head sizes

20LFL Tychem QC loose-fitting facepiece hood, facial seal, sewn-in suspension, lightweight breathig tube, large (head sizes 7 - 8)

*Requires one of the following Bullard hard hat models: 3000, 3000R, 51WHP or 51WHR.



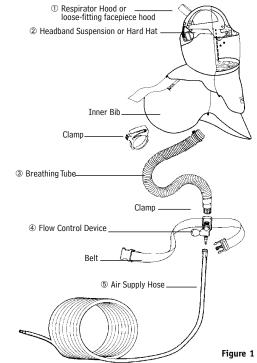
Optional accessories include 20LCL lens covers, 20RT ratchet headband suspension, 20NC or ES42 chin strap.

② Headband Suspension or Head Protection: Hard hat models 3000, 3000R, 51WHP or 51WHR or suspension models 20TG $\,$ and 20RT. 20LFM and 20LFL have sewn-in elastic headband suspensions.

3 Breathing Tube for CC20 Respirators:

For 20TJ, 20TIC, 20TICH, 20TICS, 20SIC, and 20SICH

20LFBT For 20LFM and 20LFL



Clean Breathable Air Source Supplying Grade "D" or Higher Air Quality (See Breathing Air Requirements on page 7.)

4 Flow Control Device: Connects respirator hood to air supply hose. Available with a choice of quick-disconnect fittings, constant or adjustable airflow control and optional climate control devices.

				•	Flow	Control Device*						
Without Climate						With Climate	ces					
Control Devices						Cold Only			Hot/Cold			
	Const	ant				Adjustable	!					
P	F30	F34	F40	F42	AC100030	AC100034	DC5040	DC5042	HC240030	HC240033		
A R	F30B	F35	F40B	F43	AC100030B	AC100035B	DC5040B	DC5043	HC240030B	HC240034		
Ϊ	F30S	F35B	F40S	F44	AC100030S	AC100037	DC5040S	DC5044	HC240030S	HC240035B		
	F31	F35S	F41	F47	AC100031	Frigitron 2000	DC5041	DC5047	HC240031	HC240037		
N 0.	F32	F37			AC100032	Frigitron 2000B			HC240032			
٥.	F33				AC100033	Frigitron 2000S						

^{*}All flow control devices require the 20BT breathing tube to constitute complete breathing tube assemblies. Breathing tube must be purchased separately.

⑤ Air Supply Hose: Connects breathing tube to air source supplying clean breathable air.

,	- 1175	<u> </u>
Hose for Hig Compressed	Hose for Low Pressure Ambient Air Pump	
V 5	V10	V20
3/8" Coiled I.D. Hose	3/8" I.D. Hose	1/2" I.D. Hose
V5 Starter/Extension Hose	469 Starter Hose	V20 Starter/Extension Hose
	545 Extension Hose	
Available in 25 and 50 foot lengths with	Available in 25, 50, and 100 foot lengths	Available in 50 and 100 foot lengths with 1/2"
a variety of 1/4" and 1/2" quick-	with a variety of 1/4" quick-disconnect	quick-disconnect Industrial Interchange
disconnect fitting styles and materials.	fitting styles and materials. See parts list	fittings. See parts list (page 18) for details.
See parts list (page 18) for details.	(page 18) for details.	, ,

A WARNING

Failure to heed these warnings could result in death or serious injury.

- Improper respirator use could result in death or serious injury. Improper use may also cause certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis or asbestosis.
- This respirator, when properly fitted and used, significantly reduces, but does not completely eliminate, the breathing of contaminants
 by the respirator wearer. Where excessive airborne contaminant levels are found, you may obtain better respiratory protection from
 other types of respiratory protection equipment such as a valve-operated pressure-demand airline respirator or a pressure-demand
 self-contained breathing apparatus respirator.
- Regulations require that the employer provide training to the user on the proper use, maintenance and limitations of this equipment.
 Each person using this respirator must first read and understand this entire instruction manual. The CC20 Series respirators should only be used in accordance with these operating and maintenance instructions. If you have any questions concerning the use of this respirator, ask your employer or call Bullard Technical Support at 877-BULLARD (285-5273).
- 4. Before using these respirators, be sure your employer has determined that ambient airborne contaminant concentrations do not exceed those allowed by applicable OSHA, MSHA, EPA, NIOSH or ACGIH regulations and recommendations, or any other applicable regulations. Before using the above respirator, Federal law requires that the employer shall identify and evaluate the respiratory hazard(s) in the workplace, and that this evaluation shall include a reasonable estimate of employee exposures to respiratory hazard(s), and an identification of the contaminant's chemical state and physical form.
- 5. DO NOT wear this respirator if any of the following ambient conditions exist:
 - Atmosphere is immediately dangerous to your life or health (IDLH). IDLH is defined in 29 CFR 1910.134(b).
 - You CANNOT escape without the aid of the respirator.
 - Atmosphere contains less than 19.5% oxygen.
 - Work area is poorly ventilated.
 - Unknown contaminants are present.
 - Contaminant concentrations are in excess of regulations or recommendations (as described in item 4 above).
- 6. There are users, environments and chemicals for which these respirators are not suitable. It is the responsibility of the user and the employer to determine that these respirators are appropriate for the intended use. These respirators should not be used around heat, open flames, sparks or in any potentially flammable or explosive environment. CC20 materials will burn and will melt. DuPont Tychem® spunbonded olefin apparel fabrics have "Class 1 Normal Flammability" characteristics, as tested according to the Flammable Fabrics Act. "Class 1" fabrics will burn and do not provide thermal protection if a fire or explosion should occur.
 - CC20 materials may create static electricity under low relative humidity. Surface resistance and charge dissipation are proportional to the amount of antistatic agent on the fabric and the ambient relative humidity. Since the antistatic agent is water soluble, it can be washed off with water. In addition, other clothing items that are not anti-static treated might be a potential source of static formation and discharge. Contact your employer or DuPont at 1-800-44-TYVEK on this material.
- 7. Bullard recommends that you DO NOT wear these respirators until you have passed a complete physical exam (including a chest x-ray), conducted by qualified medical personnel.
- 8. Do not modify or alter these respirators in any manner. Use only CC20 components and replacement parts manufactured by Bullard and approved by NIOSH for use with this respirator. Failure to use Bullard components and replacement parts approved by NIOSH for use with this respirator voids NIOSH approval of the entire respirator, invalidates all Bullard warranties, and could result in death or serious injury, lung disease or exposure to other hazardous or life-threatening conditions.
- Inspect all components of these respirator systems during cleaning and before and after each use for signs of wear, tear or damage
 that might reduce the degree of protection originally provided. Immediately replace worn or damaged components with Bullard CC20
 components approved by NIOSH for use with this respirator, or remove the respirator from service. (See INSPECTION, CLEANING
 AND STORAGE section for instructions on proper maintenance of CC20 Series Series respirators.)
- 10. DO NOT connect the respirators' air supply hose to nitrogen, oxygen, toxic or inert gases. To prevent this, airline couplings used for this respirator shall be incompatible with outlets for other gas systems. Failure to connect to the proper air source could result in death or serious injury. Be certain your employer has determined that the breathing air source provides at least Grade D breathable air.
- 11. DO NOT use these respirators in poorly ventilated areas, areas where oxygen is less than 19.5%, or in confined spaces such as tanks, small rooms, tunnels or vessels unless the confined space is well-ventilated and contaminant concentrations are below the upper limit recommended for this respirator. The procedures for confined space entry, operation and exit are defined in applicable regulations and standards, including 29 CFR 1910.146.
- 12. DO NOT use these respirators for abrasive blasting or underwater diving.
- 13. DO NOT reach your hand into the hood head cover in atmospheres containing air contaminants. Leave the contaminated area and clean hands before reaching inside the hood.



Cautions & Limitations For CC20 Airline Respirators

- A Not for use in atmospheres containing less than 19.5% oxygen.
- B Not for use in atmospheres immediately dangerous to life or health.
- C Do not exceed maximum use concentrations established by regulatory standards.
- D Airline respirators can be used only when respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
- E Use only the pressure ranges and hose lengths specified in the instruction manual.
- J Failure to properly use and maintain this product could result in injury or death.
- M All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- N Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O Refer to users instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- S Special or critical User's Instructions and/or specific use limitations apply. Refer to User's Instructions before donning.

Operations

Protection

Respiratory

The CC20 respirator is NIOSH approved (TC-19C-154) as a Type C continuous-flow supplied air respirator. It can be worn for general purpose applications, including pharmaceutical manufacturing, chemical and pesticide handling, tank cleaning, spray painting, and other industrial or agricultural applications in which hazardous compounds are present.

The CC20 respirators are not approved for use in any atmosphere immediately dangerous to life or health (IDLH), or from which the wearer cannot escape without the aid of the respirator. IDLH is defined in 29 CFR 1910.134(b).

Head

CC20 Series respirator hoods with the 20TG or 20RT headband suspension DO NOT provide head protection. If head protection is required, order the 20TICH or 20SICH model.

The 20TICH and 20SICH hoods, when used with a Bullard model 51 or 3000 hard hat, meet ANSI Standard Z89.1-2003 Type I, Classes E & G requirements for protective headwear for industrial workers. These hard hats are designed to provide limited head protection by reducing the force of falling objects striking the top of the hard hat shell.

Face

The 20TICH and 20SICH models meet ANSI Z87.1-2003 impact and penetration requirements for face protection. The 0.040" acetate lens provides limited face protection from flying particles or spray of hazardous liquids, but is not shatterproof.

Eyes

CC20 Series respirators DO NOT provide eye protection. Wear approved safety glasses or goggles at all times.

Ears

CC20 Series respirators DO NOT provide hearing protection. Use properly fitted earmuffs, earplugs or other protection when exposed to high noise levels.

CC20 Breathing Air Requirements

Air Quality

A WARNING

The CC20 respirator must be supplied with clean, breathable air, Grade D or better, at all times. This respirator does NOT purify or filter out contaminants. Failure to heed these warnings could result in death or serious injury.

Respirable, breathable air must be supplied to the point-ofattachment of the approved Bullard air supply hose. The point-ofattachment is the point at which the air supply hose connects to the air source. A pressure gauge attached to the air source is used to monitor the pressure of air provided to the respirator wearer (see Figure 3).

Supplied breathing air must AT MINIMUM meet the requirements for Type 1 gaseous air described in the ANSI/Compressed Gas Association Commodity Specification G-7.1 for Grade D or higher quality as specified by Federal regulations 42 CFR, Part 84.141(b) and 29CFR1910.134(i).

The requirements for Grade D breathable air include:

Oxygen	ó
Hydrocarbons (condensed)	
in mg/m³ of gas5 mg/m³ max	۲.
Carbon monoxide	۲.
Carbon dioxide	۲.
Odor	*
No toxic contaminants at levels that make	
air unsafe to breathe.	

*Specific measurement of odor in gaseous air is impractical. Air may normally have a slight odor. The presence of a pronounced odor should render the air unsatisfactory.

Contact the Compressed Gas Association (1725 Jefferson Davis Highway, Arlington, VA 22202) or www.cganet.com for complete details on Commodity Specification G-7.1.

Air Source

Locate the source of supplied air, whether it is a breathing air compressor or an ambient air pump, such as a Bullard Free-Air® pump, in a clean air environment. Locate the air source far enough from your work site to ensure the air remains contaminant-free. Always use an inlet filter on your air source.

Use suitable after-cooler/dryers with filters, and carbon monoxide monitors and alarms, like the Bullard Series of CO monitors and filters, as necessary.

The air should be regularly sampled to be sure that it meets $\operatorname{Grade} \operatorname{D}$ requirements.

CC20 Breathing Air Pressure

Air pressure should be monitored at the point-of-attachment while operating this respirator. A reliable air pressure gauge must be present to permit you to monitor pressure during actual respirator operation.

▲ WARNING

Failure to supply the minimum required pressure at the pointof-attachment for your hose length and CC20 respirator type will reduce airflow and could result in death or serious injury.

Special or Critical User's Instructions

The Breathing Air Pressure Table (see page 8) defines the air pressure ranges necessary to provide CC20 Series respirators with a volume of air that falls within the required range of 6-15 cfm or 170-425 lpm (Ref. 42 CFR, Part 84, Subpart J, 84.150).

Make sure you understand the information in the Breathing Air Pressure Table before using this respirator.

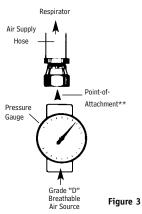
- 1. Determine the type of air source you are using (Column 1), then find your flow control valve/climate control device (Column 2).
- 2. Be sure your Bullard air supply hose (Column 3) is approved for use with your flow control valve/climate control device.
- 3. Determine that your Bullard air supply hose is within the approved length (Column 4).
- Make sure you have not exceeded the maximum number of hose sections (Column 5).
- 5. Set the air pressure at the point-of-attachment within the required pressure range (Column 6) for your flow control valve/climate control device, and air supply hose type and length

CC20 Breathing Air Supply Hoses and Hose Fittings

NIOSH approved Bullard air supply hose(s) MUST be used between the breathing tube connection fitting on the wearer's belt and the point-of-attachment to the air supply.

NIOSH approved Bullard quick-disconnect fittings MUST be used to connect V5 or V20 hose lengths together. When connecting lengths of V10 hose, only use Bullard V11 hose-to-hose adapters. Secure connection(s) until wrench-tight and leak-free. Total connected hose length and number of hoses MUST be within the ranges specified on the Breathing Air Pressure Table (see page 8).

The breathing tube connection fitting MUST be secured to the belt pressure that is supplied with this respirator. Securing the breathing tube Gauge Connection helps prevent the air supply hose from snagging, disconnecting or pulling the respirator hood off your head.



**Use either a V13 hose-to-hose pipe adapter or a quick-disconnect coupler to attach the air supply hose.



CC20 Breathing Air Pressure Table

This table defines the air pressure ranges necessary to provide CC20 Series respirators with a volume of air that falls within the required range of 6-15 cfm or 170-425 lpm according to U.S. Government regulations (42 CFR, Part 84, Subpart J, 84.150, Table 8).

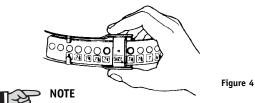
1	2	3	4	5	6
Air Source	Flow Control Valve/ Climate Control Device	Air Supply Hose	Air Supply Hose Length (feet)	Maximum Number of Hose Sections	Required Pressure Range (psig air)
Stationary or Portable Air Compressor	F30, F30B, F30S, F31, F32, F33, F34, F37	V10	25 50 100 150 200 250-300	1 2 3 4 5	14-15 15-18 19-24 23-29 25-34 31-39
	F35, F35B	V5	25 50	1 2	12-18 19-23
	F40, F40B, F40S, F41, F42, F43, F44, F47	V10	25 50 100 150 200 250-300	1 2 3 4 5	22-25 24-27 27-32 30-37 33-40 38-45
		V5	25 50	1 2	22-26 25-30
	AC100030, AC100030B, AC100030S, AC100031, AC100032, AC100033, AC100034, AC100035B,	V10	25-50 75-150 175-300	2 3 5	55-65 60-70 65-75
	AC100034, AC100033B, AC100037	V5	25 50	1 1	55-65 56-69
	DC5040, DC5040B, DC5040S DC5041, DC5042, DC5043 DC5044, DC5047	V10	50 100 150 200 250 300	2 3 3 3 3 5	48-52 59-63 68-72 80-84 85-92 90-98
		V5	25 50	1 2	53-57 67-71
	HC240030, HC240030B, HC240030S, HC240031, HC240032, HC240033, HC240034, HC240035B, HC240037	V10	25 50 100 150 200 250 300	1 2 3 4 4 5 5	59-61 63-65 68-70 73-75 77-79 80-82 84-86
		V5	25 50	1 1	65-66 68-69
Bullard Free-Air® Pumps	F35, F35B, F35S	V20	50 100 200 300	1 2 2 3	4-6 6-8 10-15 13-18
	Frigitron 2000 Frigitron 2000B Frigitron 2000S	V20	50 100 200 300	1 2 2 3	16-22 18-25 22-30 25-34

CC20 Respirator Assembly

Adjusting and Installing Headband Suspension in Hood

(If using 20TICH or SICH models, see page 10.)

- Size the standard 20TG headband suspension by squeezing top and bottom edges of rear buckle with your thumb and forefinger. Decrease size of headband suspension by sliding band through buckle.
- 2. Squeeze the buckle to disengage sizing mechanism, and place headband suspension on your head. Continue squeezing buckle while pulling headband suspension down over your head. Headband suspension automatically adjusts to your size and locks when you release your grip (see Figure 4). Headband suspension should feel comfortable and snug.



If using the optional 20RT ratchet headband suspension, refer to the instruction sheet provided with the 20RT.

Sizing 20RT Ratchet Headband Suspension

Working from inside hood, turn ratchet knob until headband suspension is at its largest size. Place hood on your head and adjust ratchet knob from outside the hood to a comfortable fit. An optional chin strap is available for additional comfort and stability.

- 3. Remove tissue paper from plastic lens of respirator hood.
- With clear lens facing you, insert headband suspension into hood with headband suspension snaps facing front.
- Engage four headband suspension snaps into corresponding snap studs mounted in plastic lens (see Figure 5).

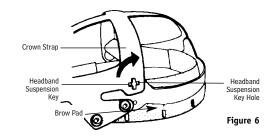


Figure 5

Adjusting Crown Straps for Vertical Fit

To improve the comfort of 20TG and 20RT headband suspensions, adjust the crown straps vertically by repositioning the headband suspension keys in the crown straps. Vertical adjustment makes headband suspension ride higher or lower on the wearer's head. To adjust the crown strap:

- 1. Remove headband suspension from respirator hood.
- 2. Rotate crown strap 90° until key dislodges from keyhole (see Figure 6).



- 3. Move key to desired vertical position.
- 4. Rotate crown strap 90° to secure key in keyhole (see Figure 7).



- 5. Repeat steps 2-4 for other crown strap keys.
- Reinstall headband suspension into CC20 respirator hood, following directions above.



NOTE

20LFM and 20LFL loose-fitting facepiece hoods have a sewn-in headband.



NOTE

If the hood rises off your head during use, select a different hood for your application, or use the optional chin strap.

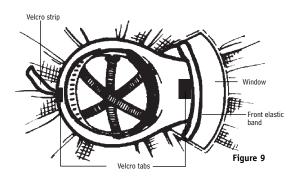


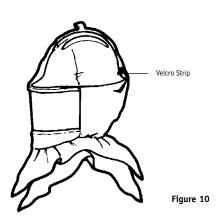
Adjusting and Installing Hard Hat in Respirator Hood*

- Assemble and adjust the standard Bullard hard hat suspensions RS4PC or ES-ULTRA or the optional ratchet suspensions RS4RC or ESRTSL by following the directions on instruction sheet attached to headband on hard hat. Read all hard hat warning labels and instructions. The following Bullard hard hat models are NIOSH approved for use with CC20 Series respirator hoods: 3000, 3000R, 51WHP and 51WHR.
- 2. If desired, install and adjust optional ES42 hard hat chin strap.
- 3. Before inserting hard hat into hood, remove the two adhesive-backed Velcro® strips attached to the Velcro piece that is sewn into the hood (see Figures 9 & 10).
- 4. Peel the backing off the longer Velcro tab and apply it to the inside center rear of the hard hat, about 1/4" up from the edge. Apply shorter Velcro tab to the underside of the brim of the hard hat (see Figure 9).
- Insert hard hat into respirator hood with cap visor facing front of hood (see Figure 8).
- Tuck cap brim on top of front elastic Velcro band sewn into hood (see Figure 9).
- 7. Loop the Velcro strip sewn inside the hood around the back of the cap and affix it to the corresponding Velcro tab previously installed inside the hard hat in step 4 (see Figure 10).
- 8. Remove protective plastic from plastic lens of respirator hood. If desired, apply optional 20LC or 20LCL adhesive-backed lens covers designed to protect the respirator's plastic lens. Apply 2-3 lenses at a time. When lens becomes soiled, remove by pulling tab at edge of lens cover to clear your vision.
- * The 20TICH and 20SICH model respirator hoods require a hard hat.



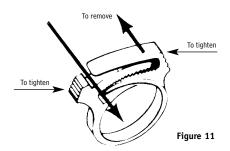
Figure 8



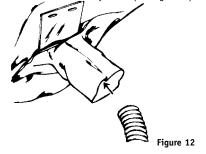


Installing Breathing Tube Assembly in Hoods

 Remove nylon clamp from plastic anchor plate on hood (see Figure 11). Do not remove foam from inside the 20BT breathing tube, used with CC20 Series Airline Respirators. The foam helps reduce the noise level of incoming air.



Insert the open end of the breathing tube approximately five inches into hood's air entry sleeve (see Figure 12).



Install nylon clamp over air entry sleeve and breathing tube, inserting clamp locks through two holes in plastic anchorplate that is sewn into hood. Locks should face away from user's neck (see Figure 13).



Figure 13

- 4. Engage clamp locks and squeeze together until tight.
- For CC20 Series Airline Respirators, attach other end of 20 BT breathing tube to flow control device on belt by screwing nylon hose connector on flow control device.



NOTE

Refer to PAPR manual for connection of breathing tube to PAPR blower.

Installing Breathing Tube Assembly in Loose-Fitting Facepieces

- The 20LFM and 20LFL loose-fitting facepieces have a sewn-in breathing tube connector on the back. The 20LFBT breathing tube has a special connector on the hood end with bayonet type pins.
- Insert the bayonet connector of the 20LFBT breathing tube in the hood connector and turn clockwise until it locks in place (see Figure 14).



Figure 1

Using Climate Control Devices for CC20 Series Airline Respirators

CC20 Series Airline Respirators are approved by NIOSH for use with four optional Bullard climate control devices: AC1000 Series, DC50 Series, HC2400 Series and Frigitron 2000 Series.

A WARNING

Climate control devices are not approved for use with Powered Air-Purifying Respirators. Failure to heed these instructions could result in death or serious injury.

- Follow the instructions supplied with your climate control dovice.
- 2. Be sure to use only the 20BT with your climate control device.
- 3. Screw nylon hose connector on end of breathing tube to hose thread on climate control device.
- 4. Firmly tighten hose connector by hand (see Figure 15).

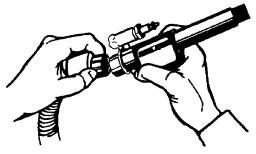


Figure 15

Lace belt supplied with respirator through belt loop bracket on climate control device.



CC20 Respirator Use

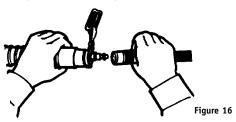
WARNING

Do not put on or remove these respirators in a hazardous atmosphere except for emergency escape purposes. Failure to heed these warnings could result in death or serious injury.

Donning the CC20 Respirator

Before using your CC20 Series respirator, assemble the respirator using the instructions given on pages 9-11.

- Connect NIOSH approved Bullard air supply hose to an air source supplying Grade D breathable air as defined on page 7. Turn on breathing air source.
- With air flowing, connect breathing tube assembly to air supply hose (see Figure 16). Connect quick-disconnect fitting on breathing tube assembly to quick-disconnect coupler on air supply hose. Once fitting is secured, release coupling sleeve to lock fittings together. Pull on both hoses to make sure they are attached securely.



3. Adjust air pressure at point-of-attachment to within the approved pressure range (see Figure 17). See the Breathing Air Pressure Table (page 8) for approved pressure ranges.

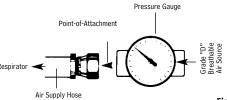


Figure 17

- With air still flowing, put on CC20 Series respirator hood.
- Position headband suspension or hard hat for a comfortable fit. (See instructions on page 9 for proper sizing).
- If using an optional chin strap, pull elastic strap under your chin. Adjust for a secure and comfortable fit.
- If using the Bullard loose-fitting facepiece hoods: Available in 20LFM medium (head sizes 6 1/2 to 7) and 20LFL large (head sizes 7 1/8 to 8). Select the size that fits most comfortably and matches your head size. Remove the protective cover from the visor. Pull the hood over your head and adjust the headband around your head and the elasticized edge of the faceseal under your chin. Make sure that the breathing tube is not twisted after donning.
- Tuck inner bib of hood (except on 20TJ, 20LFM, and 20LFL) into shirt or protective clothing for additional splash and overspray protection (see Figure 18).



Figure 18

- Pull respirator outer bib over collar of shirt or protective clothing. If you are using the 20SIC, 20SICH, or 20TICH model, pull the long outer bib down on the outside of clothing and tie at the sides.
- With breathing tube assembly attached to the hood, fasten belt at waist or hip level and adjust for comfort.
- 11. Recheck air pressure and adjust if necessary.
- 12. With air flowing into your respirator, you are now ready to enter work area.

Removing the CC20 Respirator

When finished working, leave work area wearing respirator and with air still flowing. Once outside contaminated area, remove respirator and then disconnect the air supply hose using the quickdisconnect fittings.



If using V20 Series (1/2" I.D.) air supply hose, the hose quick-disconnect coupler does not have a shutoff valve. Therefore, air will continue to flow freely after disconnecting hose from respirator.

Inspection, Cleaning and Storage

A WARNING

Failure to heed these instructions could result in death or serious injury.

LEAVE WORK AREA IMMEDIATELY IF:

- Any respirator component becomes damaged
- Airflow into respirator hood stops or slows down
- Air pressure gauge drops below the minimum specified in the Breathing Air Pressure Table
- Breathing becomes difficult
- You become dizzy, nauseous, too hot, too cold, or ill
- You taste, smell, or see contaminants inside respirator hood
- Your vision becomes impaired

A WARNING

Do not store respirator in your work area or leave it unattended in a contaminated environment. Respirable contaminants can remain suspended in the air for several hours after work activity ceases, even though you may not see them. Proper work practice requires you to wear the respirator until you are outside the contaminated area. If you place or store the respirator in a contaminated environment, contaminants, dirt, and dust could get into the respirator. When you put the respirator back on, you could breathe in contaminants upon reuse. Failure to heed these instructions could result in death or serious injury.

Bullard CC20 Series respirators have a limited service life. Therefore, a regular inspection and replacement program must be conducted.

The Bullard CC20 Series respirators and all component parts and assemblies should be inspected for damage or excessive wear before and after each use to ensure proper functioning. Immediately remove the respirator from service and replace parts or assemblies that show any sign of failure or excessive wear that might reduce the degree of protection originally provided.

Use only CC20 components and replacement parts manufactured by Bullard and approved by NIOSH for use with these respirators.

Since respirator use and the quality of maintenance performed vary with each job site, it is impossible to provide a specific time frame for respirator replacement.

Inspect all components of this respirator system during cleaning and before and after each use for signs of wear, tear or damage that might reduce the degree of protection originally provided. Respirators used by more than one person must be cleaned, inspected and sanitized after each use. If not cleaned, contamination may cause illness or disease.

WARNING

The air you breathe will not be clean unless the respirator you wear is clean. Failure to heed this warning could result in death or serious injury.

Hood and Headband Suspension

Inspection

Inspect the hood material for rips, tears, or damage from excessive wear that might reduce the degree of protection originally provided. Inspect the inner neck cuff for elasticity. The respirator's plastic lens should be inspected for cracks, scratches or any other signs of damage.

Disassemble the breathing tube from the hood by removing the nylon hose clamp. To remove the hose clamp, slide the locks sideways in opposite directions.

Remove the headband suspension and optional chin strap from the hood, except on loose-fitting facepiece hoods, remove the breathing tube by turning the connector on the tube counter-clockwise and pulling out. Inspect headband suspension for cracks, frayed or cut crown straps, torn headband or size adjustment slots, loss of pliability, or other signs of excessive wear. Check the chin strap for loss of elasticity, cuts, and cracked hanger clips.

If damage is detected, replace immediately with Bullard replacement part(s) or remove the respirator from service.

Cleaning

Bullard does not recommend laundering the hood. When the hood becomes dirty, it should be discarded and replaced. The respirator's plastic lens, headband suspension, and optional chin strap should be hand-sponged with warm water and mild detergent, rinsed, and air-dried. Mineral spirits may be used to remove paints or coatings from the solvent-resistant lens of the 20 TP and 20TPC hoods. After cleaning and before reassembling, once again carefully inspect parts for signs of damage.

A CAUTION

Do not use volatile solvents for cleaning this respirator or any parts and assemblies, with the exception that mineral spirits may be used to clean the solvent-resistant lens of the 20TP and 20TPC hoods. Strong cleaning and disinfecting agents, and many solvents, can damage the plastic parts and reduce the protective properties of the respirator. Failure to heed these instructions may result in minor or moderate injury and/or equipment damage.



Hard Hat

Inspection

Inspect the hard hat shell for nicks, gouges, cracks, and any damage due to impact, rough treatment, or wear.

Remove the headband suspension and optional chin strap from the hard hat. Inspect the headband suspension for cracks, frayed or cut crown straps, torn headband and size adjustment slots, loss of pliability or other signs of excessive wear. Check the chin strap for loss of elasticity, cuts, and cracked hanger clips.

If damage is detected, replace part(s) immediately with Bullard replacement parts or remove the hard hat from service.

Cleaning

The hard hat shell, headband suspension, and optional chin strap should be hand cleaned with warm water and mild detergent, rinsed and air-dried. After cleaning and before reassembling, once again carefully inspect parts for signs of damage.

Breathing Tube

Inspection

Inspect the breathing tube for tears, cracks, holes, or excessive wear that might reduce the degree of protection originally provided. If any signs of excessive wear are present, replace the breathing tube immediately or remove the respirator from service.

Cleaning

To clean the breathing tube, hand-sponge with warm water and mild detergent, being careful not to get water inside. Rinse and air-dry. After cleaning, once again carefully inspect breathing tube for signs of damage.

Flow Control Valve/ Climate Control Device

Inspection

Be sure the hose thread is screwed tightly into the breathing tube so no air can escape during use. Check the adjustment knob on the flow control device for cracks and other damage.

Cleaning

To clean, hand-sponge with warm water and mild detergent, being careful not to get water inside. After cleaning, once again carefully inspect flow control valve/climate control device for signs of damage. If any signs of excessive wear are present, replace the flow control valve/climate control device or remove the respirator from service.

A CAUTION

Do not cut or remove the foam that is inside the CC20 Series Airline Respirator breathing tube. The foam helps reduce the noise level of the incoming air supply. It does not filter or purify your breathing air. NIOSH has approved this respirator with the foam in place. Failure to follow these instructions may result in minor or moderate injury and/or equipment damage.

Air Supply Hoses

Inspection

Air supply hose(s) should be inspected closely for abrasions, corrosion, cuts, cracks and blistering. Be sure the hose fittings are crimped tightly to the hose so that no air can escape. Make sure the hose has not been kinked or crushed by any equipment that may have rolled over it.

If any of the above signs are present or any other signs of excessive wear are detected, replace the hose(s) immediately or remove the respirator from service.

Cleaning

The air supply hose(s) should be hand-sponged with warm water and mild detergent, rinsed and air dried. Do not get water inside the air supply hose. After cleaning, once again carefully inspect air supply hose(s) for signs of damage.

A WARNING

Only use air supply hoses that are NIOSH approved for use with the CC20 respirator. Other hoses could reduce airflow and protection, and expose the wearer to life-threatening conditions. Failure to follow these instructions could result in death or serious injury.

Storage

After reusable respirator components have been cleaned and inspected, place them in a plastic bag or an airtight container.

Store the respirator and parts where they will be protected from contamination, distortion and damage from elements such as dust, direct sunlight, heat, extreme cold, excessive moisture and harmful chemicals.

Parts and Accessories

CC20 Series airline respirators consist of five components – respirator hood, headband suspension or head protection, breathing tube, flow control device, and air supply hose.

CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
Respirato	or System		inner bib, for use with Bullard hard hat
CC20SYS	Includes 20TIC35 respirator assembly, Free-Air® pump and V20100ST air supply hose, and 20LCL lens covers	20TICH 20SICH	Tychem QC, hard hat not included Tychem SL, with taped and sealed seams,hard hat not included
Respirato	or Assemblies		ninner bib and long outer bib, for use with suspension
For use wi	ith compressed air	20TICS	Tychem QC with taped and sealed seams, and
CC20TJ30	Includes 20TJN hood, 20TG headband suspension		20TG headband suspension
	and V30 breathing tube assembly	20TICSN	Tychem QC with taped and sealed seams, no
CC20TIC30	Includes 20TCN hood, 20TG headband suspension		headband suspension
	and V30 breathing tube assembly	20SIC	Tychem SL, with taped and sealed seams, and
CC20TICH30	Includes 20TICH hood, 20TG headband suspension		20TG headband suspension
00001 530	and V30 breathing tube assembly	20SICN	Tychem SL, with taped and sealed seams, no
CC20LF30	Includes 20LFL hood and X30 breathing tube	001 EN4	headband suspension
	assembly	20LFM 20LFL	Tychem QC, facial seal, sewn-in suspension, small Tychem QC, facial seal, sewn-in suspension, large
	ith Bullard Free-Air® pumps		
CC20TJ35	Includes 20TJN hood, 20TG suspension and V35	-	Items for All Hoods
CCOOTTCOE	breathing tube assembly	20LC	Mylar lens covers (25/pkg)
CC2011C35	Includes 20TCN hood, 20TG suspension and V35 breathing tube assembly	20LCL	Mylar lens covers (25/pkg)
CC20TTCH3F	5 Includes 20TICH hood, 20TG suspension and V35	Headban	d Suspensions and Hard Hats
00201101100	breathing tube assembly	20TG	Standard headband suspension
CC20LF35	Includes 20LFL hood and X35 breathing tube	20RT	Sure-Lock® ratchet headband suspension
	assembly	3000	Hard hat with standard suspension, white
Respirato	or Hoods	3000R	Hard hat with ratchet suspension, white
•		51WHP	Hard hat with standard suspension, white
•	e hood, for use with headband suspension	51WHR	Hard hat with ratchet suspension, white
20TJ	Tychem QC with 20TG headband suspension	Accessorie	es for Headband Suspension and Hard Hats
20TJN 20TP	Tychem QC, no headband suspension	ESULTRA	Standard replacement suspension for 3000 hard hat
2017	Tychem QC, with solvent-resistant polyester lens, 20TG headband suspension (CC20 only)	ESRTSL	Replacement ratchet suspension for 3000R hard hat
20TPN	Tychem QC with solvent-resistant polyester lens, no	RS4PC	Standard replacement suspension for 51WHP
201111	suspension (CC20 only)	20120	hard hat
	• • • • • • • • • • • • • • • • • • • •	RS4RC	Replacement ratchet suspension for 51WHR
	inner bib, for use with headband suspension	20110	hard hat
20TIC 20TICN	Tychem QC, with 20TG headband suspension Tychem QC, no headband suspension	20NC ES42	Chin strap for 20TG and 20RT headband suspension Chin strap for 3000 and 5100 hard hats
20TPC	Tychem QC, with solvent-resistant polyester lens,	LJTZ	All and the strap for 3000 and 3100 hard hats
200	20TG headband suspension (CC20 only)	-	
20TPCN	Tychem QC with solvent-resistant polyester lens, no		
	suspension (CC20 only)	N REAL TO	
		5 E	SRTSL 20NC 20LCL
> ↑	> ↑	_	
(🙀 2	20TJ 20TIC		
	20TJN 20TICN		
	20TP 20TPC 20TPCN 20RT	Marie S	OTG ES42 3000
\$\tag{\tau}	20TPN 20TPCN 20RT	2	OTG E542 3000
	A TANK	not le	
	20TICH 20SICN		
	20SICH 20TICSN ESULTRA	T/	G600 TGRT600 51WHP
			51WHR



CATALOG CATALOG NUMBER DESCRIPTION NUMBER DESCRIPTION

Breathing Tubes

20BT Breathing tube with clamp for CC20 only
20LFBT Breathing tube (lightweight) with clamp for 20LFL
and 20LFM hoods only, airline mode

Breathing Tube Assemblies for CC20 Series Airline Respirators

Include breathing tube, airflow control device, quick-disconnect nipple and belt. (Note: 20BT + F30 = V30)

Constant Flow Breathing Tube Assemblies

For use with Breathing Air Compressors

V30	With 1/4" Industrial Interchange steel
	(Hansen compatible) quick-disconnect nipple
V31	With 1/4" Schrader steel quick-disconnect nipple
V32	With 1/4" Snap-Tite steel quick-disconnect nipple
V33	With 1/4" Snap-Tite brass quick-disconnect nipple

Constant Flow Breathing Tube Assemblies

For use with 20LFM and 20LFL Loose-Fitting Facepiece Hoods

X30	With 1/4" Industrial Interchange steel
	(Hansen compatible) quick-disconnect nipple
X31	With 1/4" Schrader steel quick-disconnect nipple
X32	With 1/4" Snap-Tite steel quick-disconnect nipple
X33	With 1/4" Snap-Tite brass quick-disconnect nipple

Constant Flow Breathing Tube Assemblies

For use with Bullard Free-Air Pumps

V35 With 1/2" Industrial Interchange, steel (Hansen

compatible) quick-disconnect nipple

X35 For 20LFM and 20LFL hoods with 1/2" Industrial

Interchange, steel (Hansen compatible) quick-

disconnect nipple

Adjustable Flow Breathing Tube Assemblies

For use with Breathing Air Compressors

V40 With 1/4" Industrial Interchange, steel (Hansen compatible) quick-disconnect nipple
V41 With 1/4" Schrader steel quick-disconnect nipple
V43 With 1/4" Snap-Tite, brass quick-disconnect nipple
X40 For 20LFM and 20LFL hoods with 1/4" Industrial

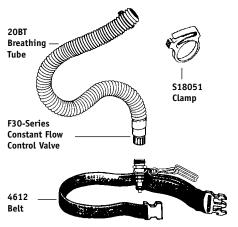
Interchange, steel (Hansen compatible) quick-

disconnect nipple

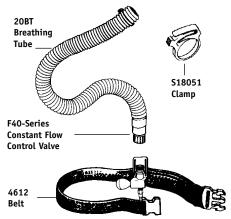
Replacement Parts for Breathing Tube Assemblies

S18051 Nylon breathing tube clamp 4612 Belt, Nylon webbing

V30 Series Breathing Tube Assembly



V40 Series Breathing Tube Assembly



Ordering Information

CC20 Series Airline Respirator User Manual

CATALOG CATALOG NUMBER DESCRIPTION NUMBER DESCRIPTION

Flow Control Devices for CC20 Series Airline Respirators

Flow Control Valves

F30 Constant flow control valve with 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple (other industrial fittings available)
F40 Adjustable flow control valve with 1/4" Industrial

Adjustable flow control valve with 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple (other industrial fittings available)

F35 Constant flow control valve with 1/2" Industrial Interchange (Hansen compatible) quick-disconnect nipple

Climate Control Assemblies for CC20 Series Airline Respirators

For use with Breathing Air Compressors

Cold Tubes - Adjustable Flow

AC1000 With 1/4" Industrial Interchange steel (Hansen compatible) quick-disconnect nipple

AC100031 With 1/4" Schrader steel quick-disconnect nipple
AC100032 With 1/4" Snap-Tite steel quick-disconnect nipple

Hot/Cold Tubes - Adjustable Flow

HC2400 With 1/4" Industrial Interchange steel (Hansen

compatible) quick-disconnect nipple

HC240031 With 1/4" Schrader steel quick-disconnect nipple HC240032 With 1/4" Snap-Tite steel quick-disconnect nipple

Dual-CooL™ - Climate Control Device

DC5040 With 1/4" Industrial Interchange steel (Hansen

compatible) quick-disconnect nipple. Includes CH60 connector hose and nylon belt (Order vest

separately)

DC70M/L Medium/Large cooling vest
DC70XL/XXL Extra Large/XX-Large cooling vest

Replacement Parts for Climate Control Assemblies

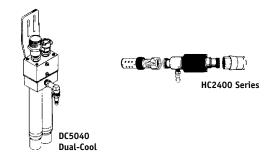
MV2400 Muffler/valve assembly for HC2400 CH60 Connector hose for use with DC5040

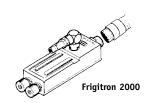
Climate Control Assembly

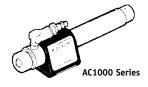
For use with Bullard EDP30 or ADP20 Free-Air Pump

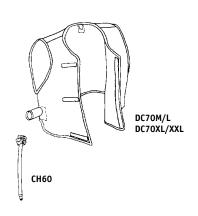
Cool Tube - Adjustable Flow

Frigitron® 2000 With 1/2" Industrial Interchange steel (Hansen compatible) quick-disconnect nipple.











Air Supply Hoses and Fittings for CC20 Series **Airline Respirators**

V10 Series Starter Hose Kits

For use with Breathing Air Compressors

Include 25' (7.6m), 3/8" I.D. rubber hose with 1/4" female quickdisconnect coupler and V13 adapter fitting (3/8" hose-to-3/8" pipe)

4696 With 1/4" Industrial Interchange steel (Hansen compatible) quick-disconnect coupler

46913 With 1/4" Schrader steel quick-disconnect coupler 46915 With 1/4" Snap-Tite steel quick-disconnect coupler

V10 Series Extension Hose Kits

For use with Breathing Air Compressors

Include 3/8" I.D. rubber hose, V11 hose-to-hose adapter fitting and V13 hose-to-pipe fitting (3/8" hose-to-3/8" pipe)

5454 25' (7.6 m) Extension hose kit 5457 50' (15.2 m) Extension hose kit 5458 100' (30.5 m) Extension hose kit

V5 Series Coiled Hoses

For use with Breathing Air Compressors

Include 3/8" I.D. Nylon coiled hose with 1/4" female quickdisconnect coupler and 1/4" male quick-disconnect nipple.

V52530 25' (7.6 m) with 1/4" Industrial Interchange steel

(Hansen compatible) fittings

V55030 50' (15.2 m) with 1/4" Industrial Interchange steel

(Hansen compatible) fittings

V52531 25' (7.6 m) with 1/4" Schrader steel quick-

disconnect fittings

V52532 25' (7.6m) with 1/4" Snap-Tite steel fittings V52535BLACK 25' (7.6m) with 1/2" Industrial Interchange

brass fittings

V55035BLACK 50' (15.2m) with 1/2" Industrial Interchange

brass fittings

V20 Series Hoses

For use with Bullard Free-Air Pumps

Include 1/2" I.D. rubber hose with 1/2" Industrial Interchange (Hansen compatible) female guick-disconnect coupler and 1/2" male quick-disconnect nipple

V2050ST

50' (15.2 m) V20100ST 100' (30.5 m)

Quick-Disconnect Nipples, Couplers and Adapters

For use with V10 hoses only

Adjustable Cool Tubes

Nipples

Cold Only

AC100030

AC100030B

AC100030S

AC100031

AC100032

AC100033

AC100034

AC100037

AC100035B

FRIGITRON2000

FRIGITRON2000B

FRIGITRON2000S

1/4" Industrial Interchange (Hansen compatible)

Hot/Cold

HC240030

HC240030B

HC240030S

HC240031

HC240032

HC240033

HC240034

HC240037

HC240035B

Dual-Cool

DC5040

DC5040B

DC5040S

DC5041

DC5042

DC5043 DC5044

DC5047

With 1/4" Female NPT S9841 V17 With 3/8" Female NPT

Coupling Type 1/4" Industrial Interchange 1/4" Industrial Interchange (Brass) 1/4" Industrial Interchange (Stainless Steel)

1/4" Schrader S19432

1/4" Snap-Tite

Couplers (Shut-Off Type)

Schrader

1/4" Snap-Tite

Hose Adapters

Respirators

Adjustable Flow

S19433

S19442

S17651

V14

V15

V18

V19

1/4"

S17603

S17601

S17615

S17611

S17614

V11

V12

V13

F40

F40B

F40S

F41

F42

F43

F44

F47

F30

F30B

F30S

F31

F32

F33

F34

F35

F37

F35B

F35S

Constant Flow

With 1/4" Female NPT

With 3/8" Female NPT

With 1/4" Female NPT

With 3/8" Female NPT

With 1/4" Female NPT

With 1/4" Female NPT

With 1/4" Male NPT

With 3/8" Male NPT

With 1/4" Female NPT

With 3/8" Female NPT

With 1/4" Male NPT

With 3/8" Male NPT

Hose-to-hose, 3/8" hose to 3/8" hose

Hose-to-pipe, 3/8" hose to 1/4" pipe

Hose-to-pipe, 3/8" hose to 3/8" pipe

(without breathing tube) for CC20 Series Airline

1/4" Industrial Interchange (Brass)

1/4" Industrial Interchange (Stainless Steel)

Other Available Flow Control Assemblies

1/4" Industrial Interchange

1/4" Schrader

1/4" Cejn

1/4" Schrader

1/4" Cein

1/4" Snap-Tite, steel

1/4" Snap-Tite, brass

1/4" Snap-Tite, stainless steel

1/2" Industrial Interchange (Brass)

1/2" Industrial Interchange

1/4" Snap-Tite, steel

1/4" Snap-Tite, brass

1/4" Snap-Tite, stainless steel

1/4" Industrial Interchange

1/4" Industrial Interchange (Brass)

1/4" Industrial Interchange (Stainless Steel)

1/2" Industrial Interchange (Stainless Steel)

With 3/8" Male NPT

1/4" Industrial Interchange (Hansen compatible)

1/4" Schrader

Air Supply Hose 4696,46913, 46915, 5454, 5457, 5458, V2050ST, V20100ST

1/4" Snap-Tite, steel 1/4" Snap-Tite, brass 1/4" Snap-Tite, stainless steel 1/4" Cejn



V5 Coiled Hose V52530, V55030, V52531, V55031, V52532, V55032, V52535BLACK, V55035BLACK

Return Authorization

CC20 Series Airline Respirator User Manual

Return Authorization

The following steps must be completed before Bullard will accept any returned goods. Please read carefully.

Follow the steps outlined below to return goods to Bullard for repair or replacement under warranty or for paid repairs:

1. Contact Bullard Technical Support by telephone or in writing at:

Bullard

1898 Safety Way Cynthiana, KY 41031-9303 Toll-free: 877-BULLARD (285-5273) Phone: 859-234-6616

In your correspondence or conversation with Technical Support, describe the problem as completely as possible. For your convenience, your technical support specialist will try to help you correct the problem over the phone.

- 2. Verify with your technical support specialist that the product should be returned to Bullard. Technical Support will provide you with written permission and a return authorization number as well as the labels you will need to return the product.
- 3. Before returning the product, decontaminate and clean it to remove any hazardous materials which may have settled on the product during use. Laws and/or regulations prohibit the shipment of hazardous or contaminated materials. Products suspected to be contaminated will be professionally discarded at the customer's expense.
- 4. Ship returned products, including those under warranty, with all transportation charges pre-paid. Bullard cannot accept returned goods on a freight collect basis.
- 5. Returned products will be inspected upon return to the Bullard facility. Bullard Technical Support will telephone you with a quote for required repair work which is not covered by warranty. If the cost of repairs exceeds stated quote by more than 20%, your technical support specialist will call you for authorization to complete repairs. After repairs are completed and the goods have been returned to you, Bullard will invoice you for actual work performed.





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Fax: 859-234-8987 www.bullard.com

Bullard GmbH Lilienthalstrasse 12 53424 Remagen phone: 0049-2642 999980 fax: 0049-2642 9999829 www.bullardextrem.com

Bullard Asia Pacific Pte. Ltd. Cisco Centre 20 Jalan Afifi, #08-03 Singapore 409179 Tel: (65) 6745-0556 Fax: (65) 6745-5176 www.bullard.com

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